

Svilen Bobev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

198
papers

3,328
citations

32
h-index

45
g-index

231
ext. papers

3,842
ext. citations

4.6
avg, IF

5.82
L-index

#	Paper	IF	Citations
198	The Highly Disordered Zintl Phase $\text{Ca}_{10}\text{GdCdSb}_9$ [New Example of a p-type Semiconductor with Remarkable Thermoelectric Properties. <i>Materials Today Physics</i> , 2022 , 100725	8	1
197	Structural diversity of the Zintl pnictides with rare-earth metals. <i>Fundamental Theories of Physics</i> , 2021 , 227-324	0.8	3
196	Caught in Action. The Late Rare Earths Thulium and Lutetium Substituting Aluminum Atoms in the Structure of CaAlBi . <i>Journal of the American Chemical Society</i> , 2021 , 143, 65-68	16.4	3
195	Structural Origin of Reversible Li Insertion in Guest-Free, Type-II Silicon Clathrates. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000114	1.6	4
194	Ultralow Thermal Conductivity and High Thermopower in a New Family of Zintl Antimonides $\text{Ca}_{10}\text{MSb}_9$ (M = Ga, In, Mn, Zn) with Complex Structures and Heavy Disorder. <i>Chemistry of Materials</i> , 2021 , 33, 3172-3186	9.6	8
193	Complex Structural Disorder in the Zintl Phases YbMnSb and YbMnSb . <i>Inorganic Chemistry</i> , 2021 , 60, 6702-6711	5.1	5
192	Single crystal growth and characterization of new Zintl phase $\text{Ca}_9\text{Zn}_3.1\text{In}_0.9\text{Sb}_9$. <i>Journal of Solid State Chemistry</i> , 2021 , 296, 121947	3.3	1
191	Structural Uniqueness of the [Nb(As)] Cluster in the Zintl Phase CsNbAs . <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4323-4333	2.8	0
190	The Zintl phases InAs (A = Ca, Sr, Ba): new topological insulators and thermoelectric material candidates. <i>Dalton Transactions</i> , 2021 , 50, 9173-9184	4.3	4
189	Chemical Bonding and Structural Relationships in Extended Solids 2021 , 19-47		
188	Solid-State Electrochemical Synthesis of Silicon Clathrates Using a Sodium-Sulfur Battery Inspired Approach. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 020516	3.9	3
187	Synthesis and structural characterization of orthorhombic Cu_3Sb ($\text{I}11$) and hexagonal $\text{Cu}_3\text{Sb}_1\text{In}_x$ ($x \text{ I}0.2$) phases. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2021 , 236, 61-70	1	0
186	Electrochemical Lithium Alloying Behavior of Guest-Free Type II Silicon Clathrates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19110-19118	3.8	0
185	Structural and Electrochemical Properties of Type VIII BaGaSn Clathrate ($\text{I}11$) during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42564-42578	9.5	1
184	Two Polymorphs of BaZnP : Crystal Structures, Phase Transition, and Transport Properties. <i>Inorganic Chemistry</i> , 2021 , 60, 14426-14435	5.1	3
183	Transport properties and thermal behavior of YbMnSb_2 semimetal above room temperature. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122467	3.3	1
182	The structure of CeAlGe refined for the first time from single-crystal X-ray diffraction data. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2021 , 77, 81-83	0.8	

181	New n-Type Zintl Phases for Thermoelectrics: Discovery, Structural Characterization, and Band Engineering of the Compounds A ₂ CdP ₂ (A = Sr, Ba, Eu). <i>Chemistry of Materials</i> , 2020 , 32, 10697-10707	9.6	12
180	Synthesis, Structural Characterization and Chemical Bonding of Sr ₇ Li ₆ Sn ₁₂ and its Quaternary Derivatives with Eu and Alkaline Earth Metal (Mg, Ca, Ba) Substitutions. A Tale of Seven Li-Containing Stannides and Two Complex Crystal Structures. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1979-1988	2.3	
179	Studied and Forgotten. A Fresh Look at the Li ₂ MnGe System. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 1195-1204	1.3	
178	Synthesis and structural characterization of the new Zintl phases Ba ₃ Cd ₂ P ₄ and Ba ₂ Cd ₂ P ₃ . Rare example of small gap semiconducting behavior with negative thermopower within the range 300 K-400 K. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121476	3.3	9
177	On the New Oxyarsenides Eu ₅ Zn ₂ As ₅ O and Eu ₅ Cd ₂ As ₅ O. <i>Crystals</i> , 2020 , 10, 475	2.3	0
176	Tunable Magnetic Exchange between Rare-Earth Metal 5d and Iron 3d States: A Case Study of the Multiple Magnetic Transitions in Gd ₆ FeBi ₂ and the Solid Solutions Dy _{6-x} Gd _x FeBi ₂ (1 ≤ x ≤ 5) with Curie Temperatures in the Range 120-150 K. <i>Chemistry of Materials</i> , 2020 , 32, 3087-3096	9.6	3
175	Complex Disorder in Type-I Clathrates: Synthesis and Structural Characterization of A ₈ GaxSn ₄₆ (A = Rb, Cs; 6.9 Crystals, 2020 , 10, 298	2.3	
174	Magnetic frustration in a metallic fcc lattice. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
173	Magnetic mixed valent semimetal EuZnSb ₂ with Dirac states in the band structure. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
172	Synthesis, structural characterization, and electronic structure of the novel Zintl phase BaZnP. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 869-873	0.8	4
171	Electronic stabilization by occupational disorder in the ternary bismuthide LiInBi (x = 0.14, y = 0.29). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 585-590	0.8	
170	Bismuth as a Reactive Solvent in the Synthesis of Multicomponent Transition-Metal-Bearing Bismuthides. <i>Inorganic Chemistry</i> , 2020 , 59, 3459-3470	5.1	6
169	Understanding the Amorphous Lithiation Pathway of the Type I Ba ₈ Ge ₄₃ Clathrate with Synchrotron X-ray Characterization. <i>Chemistry of Materials</i> , 2020 , 32, 9444-9457	9.6	4
168	Observation of an Unexpected n-Type Semiconducting Behavior in the New Ternary Zintl Phase Eu ₃ InAs ₃ . <i>Chemistry of Materials</i> , 2020 , 32, 9616-9626	9.6	12
167	Ca ₁₄ AlBi ₁₁ new Zintl phase from earth-abundant elements with a great potential for thermoelectric energy conversion. <i>Materials Today Advances</i> , 2020 , 7, 100094	7.4	8
166	One Structure, Two Elements-LuGe Superconductor vs Ordinary Metallic Conductor LuSn. A Case Study on How Site-Selective Germanium for Tin Atom Substitution Leads to Modulating of the Charge Distribution. <i>Inorganic Chemistry</i> , 2020 , 59, 16853-16864	5.1	5
165	Multifaceted Sn-Sn bonding in the solid state. Synthesis and structural characterization of four new Ca-Li-Sn compounds. <i>Dalton Transactions</i> , 2019 , 48, 14398-14407	4.3	6
164	Layered Quaternary Germanides-Synthesis and Crystal and Electronic Structures of AELiInGe (AE = Sr, Ba, Eu). <i>Inorganic Chemistry</i> , 2019 , 58, 7895-7904	5.1	7

163	From the Ternary Phase CaZnSb (100.4) to the Quaternary Solid Solutions CaRE ZnSb (RE = La-Nd, Sm, Gd, x 0.9). A Tale of Electron Doping via Rare-Earth Metal Substitutions and the Concomitant Structural Transformations. <i>Inorganic Chemistry</i> , 2019 , 58, 8506-8516	5.1	21
162	Exploration of Multi-Component Vanadium and Titanium Pnictides Using Flux Growth and Conventional High-Temperature Methods. <i>Frontiers in Chemistry</i> , 2019 , 7, 909	5	0
161	Five new ternary indium-arsenides discovered. Synthesis and structural characterization of the Zintl phases Sr ₃ In ₂ As ₄ , Ba ₃ In ₂ As ₄ , Eu ₃ In ₂ As ₄ , Sr ₅ In ₂ As ₆ and Eu ₅ In ₂ As ₆ . <i>Journal of Solid State Chemistry</i> , 2019 , 278, 120889	3.3	20
160	Synthesis, crystal structure and physical properties of the solid solutions Ca ₁₄ RExCdSb ₁₁ (RE = La, Nd, Sm, Gd, Yb, x 0.85 - 0.15). <i>Journal of Applied Physics</i> , 2019 , 125, 245101	2.5	15
159	Synthesis and structure of Sr ₁₄ Zn _{1+x} As ₁₁ and Eu ₁₄ Zn _{1+x} As ₁₁ (x 0.5). New members of the family of pnictides isotypic with Ca ₁₄ AlSb ₁₁ , exhibiting a new type of structural disorder. <i>Journal of Solid State Chemistry</i> , 2019 , 280, 120990	3.3	14
158	Synthesis and structural characterization of the type-I clathrates KAlSn and RbAlSn (x 6.4-9.7). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1535-1540	0.8	1
157	Structural analysis of GdFeBi from single-crystal X-ray diffraction methods and electronic structure calculations. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 562-567	0.8	5
156	Synthesis, and Crystal and Electronic Structures, of the Titanium-Rich Bismuthides AETiBi (AE = Sr, Ba, Eu). <i>Inorganic Chemistry</i> , 2019 , 58, 2934-2941	5.1	7
155	Data from the electronic band structures of several Zintl phases with group 15 elements and the transition metals. <i>Data in Brief</i> , 2019 , 22, 446-450	1.2	2
154	Zintl phases with group 15 elements and the transition metals: A brief overview of pnictides with diverse and complex structures. <i>Journal of Solid State Chemistry</i> , 2019 , 270, 346-359	3.3	47
153	Intricate Li-Sn Disorder in Rare-Earth Metal-Lithium Stannides. Crystal Chemistry of RELiSn (RE = La-Nd, Sm; x Inorganic Chemistry, 2018 , 57, 5632-5641	5.1	2
152	Rare-Earth Metal Substitutions in Ca ₉ RExMn ₄ Sb ₉ (RE = La, Nd, Sm; x 1). Synthesis and Characterization of a New Series of Narrow-Gap Semiconductors. <i>Chemistry of Materials</i> , 2018 , 30, 3518-3527	9.6	16
151	Synthesis of 1T, 2H, and 6R Germanane Polytypes. <i>Chemistry of Materials</i> , 2018 , 30, 1335-1343	9.6	43
150	Synthesis, Crystal and Electronic Structure of the Titanium Bismuthides Sr ₅ Ti ₁₂ Bi _{19+x} , Ba ₅ Ti ₁₂ Bi _{19+x} , and Sr ₅ Eu ₁ Ti ₁₂ Bi _{19+x} (x 0.5, 1.0; 2.4, 4.0). <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1266-1274	2.3	12
149	An Unusual Triple-Decker Variant of the Tetragonal BaAl-Structure Type: Synthesis, Structural Characterization, and Chemical Bonding of SrCdGe and EuCdGe. <i>Inorganic Chemistry</i> , 2018 , 57, 833-842	5.1	6
148	Niobium-bearing arsenides and germanides from elemental mixtures not involving niobium: a new twist to an old problem in solid-state synthesis. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 623-627	0.8	11
147	Undistorted linear Bi chains with hypervalent bonding in LaTiBi from single-crystal X-ray diffraction. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 618-622	0.8	10
146	Yet again, new compounds found in systems with known binary phase diagrams. Synthesis, crystal and electronic structure of NdBi and SmBi. <i>Chemical Communications</i> , 2018 , 54, 7089-7092	5.8	12

145	Synthesis and Structural Characterization of Ba ₇ Li ₁₁ Bi ₁₀ and AE ₄ (Li,Tr) ₇ Pn ₆ (AE = Sr, Ba, Eu; Tr = Ga, In; Pn = Sb, Bi). <i>Inorganics</i> , 2018 , 6, 109	2.9	7
144	Crystal Chemistry of RE ₆ Mg _x Cd ₂₃ □Pb [0.6(1) □ 0.2(1); RE = La and Ce]. New Mixed-Metal Derivatives of the RE ₆ Cd ₂₃ T Phases (T = Group 14/15/16 Element). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018 , 644, 1734-1740	1.3	
143	Crystal structure of the layered arsenide RbCuAs. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 1715-1718	0.8	3
142	Exploratory Work in the Quaternary System of Ca?Eu?Cd?Sb: Synthesis, Crystal, and Electronic Structures of New Zintl Solid Solutions. <i>Materials</i> , 2018 , 11,	3.5	11
141	On the effect of Ga and In substitutions in the CaBi and YbBi bismuthides crystallizing in the tetragonal HoGe structure type. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 269-273 ^{0.8}		11
140	Experimental and Computational Study of the Lithiation of BaAl Ge Based Type I Germanium Clathrates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37981-37993	9.5	11
139	Synthesis and structure determination of CeCdTe: a new chalcogen-containing member of the RECdT family (RE is a rare-earth metal and T is a late group 14, 15 and 16 element). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017 , 73, 121-125	0.8	1
138	Synthesis and structural characterization of the Zintl phases Na ₃ Ca ₃ TrPn ₄ , Na ₃ Sr ₃ TrPn ₄ , and Na ₃ Eu ₃ TrPn ₄ (Tr=Al, Ga, In; Pn=P, As, Sb). <i>Journal of Solid State Chemistry</i> , 2017 , 249, 160-168	3.3	6
137	Synthesis and structural characterization of RE ₆ Cd ₂₃ T (RE=La□□; T=Sn, Sb, Pb, and Bi). <i>Journal of Solid State Chemistry</i> , 2017 , 246, 203-208	3.3	3
136	The Ternary Alkaline-Earth Metal Manganese Bismuthides SrMnBi and BaMnBi (x □.15). <i>Inorganic Chemistry</i> , 2017 , 56, 12369-12378	5.1	20
135	Anodes for Lithium-Ion Batteries Based on Type I Silicon Clathrate BaAlSi - Role of Processing on Surface Properties and Electrochemical Behavior. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41246-41257 ^{9.5} ²⁰		
134	On the structures of the rare-earth metal germanides from the series REAlGe (RE = Nd, Sm, Gd, Tb, Dy, Ho; 0.6 Dalton Transactions, 2017 , 46, 9253-9265	4.3	3
133	Crystal chemistry and magnetic properties of the solid solutions CaREMnBi (RE = La-Nd, Sm, and Gd-Ho; x □.6-0.8). <i>Dalton Transactions</i> , 2017 , 46, 16041-16049	4.3	19
132	Cu and Zn Substituted Silicon Clathrates with the Cubic Type-II Structure: Synthesis and Characterization of Cs ₈ Na ₁₆ Cu _{3.8} Si _{132.2} and Cs ₈ Na ₁₆ Zn _{6.9} Si _{129.1} . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1874-1880	1.3	2
131	Synthesis and Structural Characterization of Ca ₁₄ NbxIn _{1-x} As ₁₁ (x □.85). <i>Solid State Phenomena</i> , 2016 , 257, 147-151	0.4	3
130	Cu ₃ Ru ₆ Sb ₈ □ new ternary antimonide with a new structure type. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1616-1623	6.8	1
129	The new Zintl phases Eu ₂₁ Cd ₄ Sb ₁₈ and Eu ₂₁ Mn ₄ Sb ₁₈ . <i>Journal of Solid State Chemistry</i> , 2016 , 238, 303-310	3.10	8
128	Crystal structures of the four new quaternary copper(I)-selenides A _{0.5} CuZrSe ₃ and ACuYSe ₃ (A=Sr, Ba). <i>Journal of Solid State Chemistry</i> , 2016 , 242, 14-20	3.3	11

127	New insights into the application of the valence rules in Zintl phases Crystal and electronic structures of Ba ₇ Ga ₄ P ₉ , Ba ₇ Ga ₄ As ₉ , Ba ₇ Al ₄ Sb ₉ , Ba ₆ CaAl ₄ Sb ₉ , and Ba ₆ CaGa ₄ Sb ₉ . <i>Journal of Solid State Chemistry</i> , 2016 , 236, 116-122	3.3	7
126	Synthesis and Structural Characterization of the New Clathrates K ₄ Cl ₄ Te, Rb ₄ Cl ₄ Te, and Cs ₄ Cl ₄ Te. <i>Materials</i> , 2016 , 9,	3.5	4
125	On the Extended Series of Quaternary Zintl Phases Ca ₁₃ REMnSb ₁₁ (RE = La, Nd, Sm, Gd, Dy). <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 2912-2922	2.3	21
124	Synthesis, Structure, Thermoelectric Properties, and Band Gaps of Alkali Metal Containing Type I Clathrates: A ₈ Ga ₈ Si ₃₈ (A = K, Rb, Cs) and K ₈ Al ₈ Si ₃₈ . <i>Chemistry of Materials</i> , 2015 , 27, 2812-2820	9.6	33
123	Synthesis, crystal structures, and physical properties of the new Zintl phases A ₂₁ Zn ₄ Pn ₁₈ (A=Ca, Eu; Pn=As, Sb) Versatile arrangements of [ZnPn ₄] tetrahedra. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 204-211	3.3	17
122	Synthesis and structure determination of seven ternary bismuthides: crystal chemistry of the RELi ₃ Bi ₂ family (RE = La-Nd, Sm, Gd, and Tb). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015 , 71, 894-9	0.8	3
121	Ba and Sr Binary Phosphides: Synthesis, Crystal Structures, and Bonding Analysis. <i>Inorganic Chemistry</i> , 2015 , 54, 8608-16	5.1	21
120	Structural modulations in the rare-earth metal digermanides REAl _{1-x} Ge ₂ (RE = Gd-Tm, Lu, Y; 0.8	5.1	11
119	Abnormal thermal expansion, multiple transitions, magnetocaloric effect, and electronic structure of Gd ₆ Co _{4.85} . <i>Journal of Applied Physics</i> , 2015 , 118, 133903	2.5	8
118	Synthesis, Crystal and Electronic Structures of the Pnictides AE ₃ TrPn ₃ (AE = Sr, Ba; Tr = Al, Ga; Pn = P, As). <i>Crystals</i> , 2015 , 5, 433-446	2.3	13
117	Non-stoichiometric compositions arising from synergistic electronic and size effects. Synthesis, crystal chemistry and electronic properties of A ₁₄ Cd _{1+x} Pn ₁₁ compounds (0 ≤ x ≤ 0.3; A = Sr, Eu; Pn = As, Sb). <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10388-10400	7.1	14
116	Structural variability versus structural flexibility. A case study of Eu ₉ Cd _{4+x} Sb ₉ and Ca ₉ Mn _{4+x} Sb ₉ (x [(1)/2]). <i>Inorganic Chemistry</i> , 2015 , 54, 947-55	5.1	20
115	Quaternary pnictides with complex, noncentrosymmetric structures. Synthesis and structural characterization of the new Zintl phases Na ₁₁ Ca ₂ Al ₃ Sb ₈ , Na ₄ CaGaSb ₃ , and Na ₁₅ Ca ₃ In ₅ Sb ₁₂ . <i>Inorganic Chemistry</i> , 2015 , 54, 1931-9	5.1	7
114	The layered antimonides RELi ₃ Sb ₂ (RE=Ce, Nd, Sm, Gd, Ho). Filled derivatives of the CaAl ₂ Si ₂ structure type. <i>Journal of Solid State Chemistry</i> , 2014 , 210, 89-95	3.3	13
113	The RELi _x Sn ₂ (RE=La, Nd, Sm, and Gd; 0 ≤ x). <i>Journal of Solid State Chemistry</i> , 2014 , 211, 95-105	3.3	11
112	The series RE ₅ Li ₂ Sn ₇ (RE = Ce, Pr, Nd, Sm) revisited: crystal structure of RE ₅ Li _{2-x} Sn _{7+x} [0 ≤ x ≤ 0.03 (1)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014 , 70, 2-6	0.8	5
111	New Lithium-Containing Pnictides with 1-D Infinite Chains of Supertetrahedral Clusters: Synthesis, Crystal and Electronic Structure of Ba ₄ Li ₂ Cd ₃ Pn ₆ (Pn = P, As and Sb). <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 5113-5124	2.3	11
110	Dimorphism in La ₅ Ge ₃ and Ce ₅ Ge ₃ ? How Exploratory Syntheses Led to Surprising New Finds in the La-Ge and Ce-Ge Binary Phase Diagrams. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 805-813	1.3	5

109	Calcium substitution in rare-earth metal germanides with the hexagonal Mn ₅ Si ₃ structure type. structural characterization of the extended series RE ₅ Ca _x Ge ₃ (RE=Rare-earth metal). <i>Journal of Solid State Chemistry</i> , 2014 , 217, 142-149	3.3	1
108	New Type-I and Type-II Clathrates in the Systems CsNaGaSi, RbNaGaSi, and RbNaInSi.	2.9	12
107	Synthesis and crystal chemistry of new ternary pnictides containing lithium--adding structural complexity one step at a time. <i>Dalton Transactions</i> , 2014 , 43, 16889-901	4.3	14
106	Synthesis and crystal structures of RE ₇ Zn(21+x)Si(2-x) [RE = Ce, Pr, and Nd; 0.09 (1) Acta Crystallographica Section C, Structural Chemistry, 2014 , 70, 945-8	0.8	1
105	Correlations between chemical bonding and magnetic exchange interactions: synthesis, crystal structures, and magnetic properties of the new family RE ₂ AlGe ₂ (RE = Tb-Tm, Lu). <i>Inorganic Chemistry</i> , 2013 , 52, 5307-15	5.1	10
104	Synthesis and structural characterization of RE ₇ Zn ₂₁ Tt ₂ (RE = La-Nd; Tt = Ge, Sn, and Pb): new structure type among the polar intermetallic phases. <i>Inorganic Chemistry</i> , 2013 , 52, 12731-40	5.1	8
103	Tin clathrates with the type II structure. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1696-9	16.4	36
102	Synthesis, structural characterization and properties of SrAl ₄ Gex, BaAl ₄ Gex, and EuAl ₄ Gex (x=0.30.4) Rare examples of electron-rich phases with the BaAl ₄ structure type. <i>Journal of Solid State Chemistry</i> , 2013 , 205, 21-28	3.3	8
101	New ternary phosphides and arsenides. Syntheses, crystal structures, physical properties of Eu ₂ ZnP ₂ , Eu ₂ Zn ₂ P ₃ and Eu ₂ Cd ₂ As ₃ . <i>Journal of Solid State Chemistry</i> , 2013 , 205, 116-121	3.3	13
100	Synthesis, crystal structures and chemical bonding of RE(5-x)Li(x)Ge ₄ (RE = Nd, Sm and Gd; x ? 1) with the orthorhombic Gd ₅ Si ₄ type. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1-4		4
99	Rare-earth metal gallium silicides via the gallium self-flux method. Synthesis, crystal structures, and magnetic properties of RE(Ga _{1-x} Si _x) ₂ (RE=Y, La, Nd, Sm, Gd, Lu). <i>Journal of Solid State Chemistry</i> , 2013 , 201, 191-203	3.3	4
98	Synthesis, crystal and electronic structures of the new Zintl phases Ba ₃ Al ₃ Pn ₅ (Pn = P, As) and Ba ₃ Ga ₃ P ₅ . <i>Inorganic Chemistry</i> , 2013 , 52, 499-505	5.1	9
97	Synthesis, structural characterization, and physical properties of the early rare-earth metal digermanides REGe(2-x) (x = 1/4) [RE = La-Nd, Sm]. A case study of commensurately and incommensurately modulated structures. <i>Inorganic Chemistry</i> , 2013 , 52, 953-64	5.1	18
96	Ternary K ₂ Zn ₅ As ₄ -type pnictides Rb ₂ Cd ₅ As ₄ and Rb ₂ Zn ₅ Sb ₄ , and the solid solution Rb ₂ Cd ₅ (As,Sb) ₄ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 455-9		13
95	Copper and Zinc Substitutions in Clathrates of Tin: Synthesis, Structural Characterization, and Physical Properties of A ₈ Cu _{2.67} Sn _{43.33} and A ₈ Zn ₄ Sn ₄₂ (A = K, Rb, Cs) with the Type-I Structure. <i>Chemistry of Materials</i> , 2013 , 25, 3737-3744	9.6	6
94	New polar intermetallic phases RE ₂ Zn ₅ Tt (RE = La-Nd; Tt = Sn and Pb): synthesis, structure, chemical bonding, and magnetic properties. <i>Inorganic Chemistry</i> , 2013 , 52, 9102-10	5.1	8
93	K and Ba distribution in the structures of the clathrate compounds K(x)Ba(16-x)(Ga,Sn) ₁₃₆ (x = 0.8, 4.4, and 12.9) and K(x)Ba(8-x)(Ga,Sn) ₄₆ (x = 0.3). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 319-23		12
92	On the possibility for Rb- and Eu-cation ordering in type-I clathrates: synthesis and homogeneity range of the novel compounds Rb(8-x)Eu(x)(In,Ge) ₄₆ (0.6 ≤ x ≤ 8). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1457-61		4

91	Structural Characterization of the Intermetallic Phase $\text{EuZn}_x\text{In}_{4-x}$ ($x \approx 1.1-1.2$). Zn and In Site-Preferences in the BaAl_4 Structure-Type from Computational Analysis. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1656-1662	1.2	8
90	Synthesis and structural characterization of the ternary Zintl phases $\text{AE}_3\text{Al}_2\text{Pn}_4$ and $\text{AE}_3\text{Ga}_2\text{Pn}_4$ ($\text{AE}=\text{Ca, Sr, Ba, Eu}$; $\text{Pn}=\text{P, As}$). <i>Journal of Solid State Chemistry</i> , 2012 , 188, 59-65	3.3	32
89	New rare-earth metal germanides with bismuth substitution. Synthesis, structural variations, and magnetism of the $\text{RE}[\text{BixGe}_{1-x}]_2$ ($\text{RE}=\text{Y, Pr, Nd, Sm, Gd, Lu}$) compounds. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 586-595	3.3	7
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